

U.S. Department of Transportation

Federal Aviation Administration





October 05, 1997 - October 11, 1997

Summary

GENERAL AVIATION, ZAC-327

You can improve Air Safety by reporting the problem when you see it!

SECTION

- **I** Significant Occurence Report
- II Domestic Service Difficulty Report
- **III** International Service Difficulty Report
- IV SDR Totals by District Office
- V Index By Aircraft Make and Model

ISSUE 97-41

VI Joint Aircraft System/Component Code Table



SDR SUMMARY

General Aviation, ZAC-327



This summary includes domestic (United States) Service Difficulty Reports (SDRs) entered into the data base for aircraft weighing 12,500 lbs. and below. It also includes reports on aeronautical products (engines, propellers, and components), and all helicopters. A separate section for International SDRs for aircraft weighing 12,500 lbs. and under has also been included. Under a data exchange agreement, International SDRs are submitted to the FAA by the Civil Aviation Authority of other countries (currently, Canada - CAN, and Australia - AUS). All reports are sorted by aircraft make, model group (basic model), and Joint Aircraft System/Component (JASC) code. Within each aircraft model group, the specific model shown may vary, but similar types of reports will be grouped together and listed in ascending order by their JASC code. Each field contains all information submitted to the FAA. Some fields are not included in order to make the summary easier to read. Additional information may be obtained by referring to the "operator control number." Send your request to the Aviation Data Systems Branch, AFS-620 at the address or phone below.

"The Service Difficulty Reports in this publication are derived from unverified information submitted by the aviation community without FAA verification for accuracy. The number of SDRs submitted is not an indication of the mechanical reliability or fitness of an airline or individual operator, and the information should not be used as such."

Comments are welcomed and may be directed to:

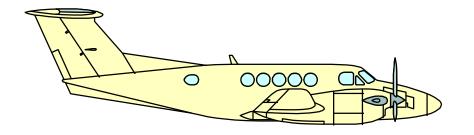
Federal Aviation Administration Aviation Data Systems Branch, AFS-620 P.O. Box 25082 Oklahoma City, OK 73125-5029 Phone: (405) 954-4171, Fax: (405) 954-4748

Your continued participation is essential and is an integral part of ensuring aviation safety. Thank you for supporting the Service Difficulty Program! If you have any questions regarding this special notice you can contact John Jackson at (405) 954-6486, or Jim Gillespie at (405) 954-1141, or Blake McDonald at (405) 954-0307 in the Aviation Systems Branch (AFS-620). Their E-mail addresses are:

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SIGNIFICANT OCCURRENCE REPORT





THE SIGNIFICANT OCCURRENCE REPORT



The Significant Occurrence Report is a compilation all of the star bordered reports that appear in the General Aviation Service Difficulty Report (SDR) Summary, ZAC-327. The Significant Occurrence Report is used to highlight industry problem areas to field inspectors and the aviation public.

Limited analysis is performed by the Aviation Data Systems Branch, AFS-620 during the preparation of the "Significant Occurrence Report", which is generated each week and is included in the front of the Air Carrier SDR Summary. Significant Reports are hand selected by AFS-620's inspectors based on the individual merit of each report. The criteria for selection includes, but is not limited to, items that indicate high failure rates; items related to accidents or incidents; or design or maintenance failures which may affect the safe operation of the aircraft.

In some cases, this limited analysis of SDR data leads to the preparation of information bulletins which are routed to the appropriate product certification office for further investigation of the problem. The end result may be the issuance of an airworthiness directive (AD) by the Aircraft Certification Service (AIR) if warranted.

The Significant Occurrence Report (section I) of the weekly SDR Summary is not intended to be a summary of all significant events and should not be used as such. We recommend that you review further the applicable sections of the SDR summary that may be of interest.

SIGNIFICANT OCCURRENCE REPORT

ATA	REG. NO	ACFT MAKE	ENG MAKE	PROP MAKE	COMP MFG	PART NAME	PART COND	TT	DIFF. DATE
PER	SERIAL NO	ACFT MODEL	ENG MDL	PROP MDL	COMP MDL	PART NUMBER	PART LOC.	TSO	OPER CONT NO
310	8251B	AMTR				VENT	PLUGGED		9/16/97
	1194142	RANSS7					FUEL TANK		97ZZXX4247
	INVESTIGATION PUMP LINE, THE	REVEALED THE LT FU RT FUEL TANK WAS PI	EL TANK WAS EMPT RESSURIZED. UNAB	Y AND THE RT TANK LE TO BLOW BACK T	K WAS NEARLY FUL ΓHROUGH VENT. Β΄	AFT RECEIVED DAMAGE T .L. THE CARBURETOR BO' UILDER STATED WHEN IN GED DURING INSTALLAT	WLS WERE EMPTY. B'	Y BACK-BLOV FOUND IT TO	WING FROM THE FUEL BE BLOCKED AND HA
213	102KM	AMTRDF				GEAR LEG	FAILED	178	9/23/97
	1702	KITFOX					LT MLG		97ZZZX4249
	AFTER AIRCRAF	Γ LANDED ON RUNWA	Y AND PROCEEDED	TO THE TAXIWAY. T	THE LEFT LANDING	GEAR FAILED AT WELD A	AREA.		
11	2009X	ВЕЕСН				BOLTS	LOOSE	1486	9/8/97
	ME66	76				NAS464P5	WING CENTER		97ZZZX4250
		JR INSPECTION, THE C D BY ONE-HALF TO ON				/ING SPAR PLATE TO THE 100-140 INCH/POUND.	WING SPAR (I.E., 20 W	'ING BOLTS) '	WERE ALL FOUND
.33	22BM	BEECH			AIRESRCH	OUTFLOW VALVE	FAILED	6290	4/28/97
	LJ360	C90				1036481	CABIN		97ZZZX4284
	CABIN CONTINUE PLUG BLOCKING	ED TO OSCILLATE IN T OUTLET CAUSING PRI	THIS MANNER UNTIL ESSURIZATION FLUC	PILOT DUMPED THE CTUATION. DEFECT I	E CABIN AND CONT S COVERED IN BEE	THE SAFETY VALVE OPEN INUED UNPRESSURIZED. CH SL (SL 1162 AND SL 110 THERE IS AN UNKNOWN:	ON TEST FLIGHT, MEO 09) AND AIRESEARCH	CHANIC FOUN 5-2243, BUT D	ND VALVE RETAINER
730	7TD	BEECH				CABLE	BROKEN	2754	9/18/97
BCR	LW276	E90				5052443931	ELEVATOR CONT	ROI	97ZZZX4298
						UND ELEVATOR CABLE E UGGEST RE-ROUTE BLEE		E ON A CLAN	MP ON THE BLEED AIR
323	40EA	BELL				SWITCH	FAILED	1586	9/5/97
	47061	222				10648BH11	FUEL SOV		97ZZZX4316
	MECHANICAL LO	OCKING (INTERNAL). S	SUBMITTER RECOMN	MENDS REPLACEMEN	NT OF SWITCH FOLI	IGINE TO SHUT DOWN DU LOWING 7,500 CYCLES OF ID GROUND RUNS, ETC.			
710	13378	CESSNA				CABLE	FRAYED	4101	9/1/97
SMR	17262714	172M				0510105224	LT AILERON		97ZZZX4270
	LEFT PRIMARY A HOURS. SUBMIT	AILERON CABLE WAS F	OUND FRAYED DUR	ING ROUTINE INSPE	CTION. SEVERAL H	IARD TO SEE AREAS OF C	ABLE WERE FRAYED	TOTAL TIME	ON CARLE 4 101 1

		CURRENCE					10/5/97 TO 10/1			ZAC-32
ATA	REG. NO	ACFT MAKE	ENG MAKE	PROP MAKE	COMP MFG	PART NAME	PART COND	TT	DIFF. DA	
OPER	SERIAL NO	ACFT MODEL	ENG MDL	PROP MDL	COMP MDL	PART NUMBER	PART LOC.	TSO	OPER C	ONT NO
2701	344K	CESSNA				BEARING	FAILED	11956	9/9/97	
Q2AR	18263709	182P				07606331	CONTROL COLUM	MN	97ZZZX4	1314
	PILOT'S CONTRO	L COLUMN FORWARD	SUPPORT ROLLER B	EARING FAILED ANI	CAUSED AILERON	N CONTROL BINDING IN-F	LIGHT.			
7332	850FE	CESSNA	PWA			WIRE	CHAFED		9/6/97	
COEA	208B0164	208B	PT6A114			QA23	INSTR PANEL		COEA97	01850
		IP PRESSURE SWITCH (GROUND RUN WITH NO				F GLOVE BOX. INSTALLE	ED AND ROUTED NEW	WIRE. PERFO	ORMED A	
5340	2610Z	CESSNA				CHANNEL	CRACKED		9/16/97	
BR0A	402C0068	402C				58130441	NLG		97ZZZX4	1251
	FORWARD SUPPO	*	WAS DISCOVERED C	RACKED AND DAMA	GED. AIRCRAFT H	ATOR WERE FOUND CRAC AD NO HISTORY OF PROB				,
5610	56294	MAULE				WINDOW	RIVETS FAILED		9/9/97	
5610	56294 9001C	MAULE M5210TC				WINDOW	RIVETS FAILED RT FRONT		9/9/97 97 ZZZ X4	1276
5610	9001C	M5210TC	IGHT LEADING TO T	OTAL LOSS OF RT FR	ONT WINDOW FRO	WINDOW M THE AIRCRAFT. TT: 90	RT FRONT			1276
	9001C	M5210TC	IGHT LEADING TO T	OTAL LOSS OF RT FR	ONT WINDOW FRO		RT FRONT	1633		1276
	9001C FRONT WINDOW	M5210TC RIVETS FAILED IN-FL	IGHT LEADING TO T	OTAL LOSS OF RT FR		OM THE AIRCRAFT. TT: 90	RT FRONT 02 HOURS.	1633 300	97ZZZX ²	
6122	9001C FRONT WINDOW 3984N 680012 INSTALLED 3-BL RPM FROM 2,400	M5210TC RIVETS FAILED IN-FL MOONE M20C ADE PROPELLER IAW S RPM. AFTER NUMERO	STC SA 4529NM. STC US TESTS, DETERMI	MAKES NO MENTIONED THE EDO AIRE (SIGMATEK N OF PROPELLER O GARWIN) PROPELL	OM THE AIRCRAFT. TT: 90 GOVERNOR	RT FRONT 02 HOURS. FAULTY PROPELLER RS OF OPERATION, PR SUPPLY THE VOLUME	300 ROPELLER BE COF OIL REQU	97ZZZX 8/21/97 97ZZZX GAN SURGINO JIRED BY THIS	1253 G 100-200
	9001C FRONT WINDOW 3984N 680012 INSTALLED 3-BL RPM FROM 2,400	M5210TC RIVETS FAILED IN-FL MOONE M20C ADE PROPELLER IAW S RPM. AFTER NUMERO	STC SA 4529NM. STC US TESTS, DETERMI	MAKES NO MENTIONED THE EDO AIRE (SIGMATEK N OF PROPELLER O GARWIN) PROPELL	GOVERNOR 34828014 GOVERNOR. AFTER 3 HOULER GOVERNOR CANNOT	RT FRONT 02 HOURS. FAULTY PROPELLER RS OF OPERATION, PR SUPPLY THE VOLUME	300 ROPELLER BE COF OIL REQU	97ZZZX 8/21/97 97ZZZX GAN SURGINO JIRED BY THIS	1253 G 100-200

17-Oct-97

FEDERAL AVIATION ADMINISTRATION SIGNIFICANT OCCURRENCE REPORT INDEX

YEAR

Showing Specific Part Numbers and Aircraft Model by Year

FOR THE PERIOD OF: OCTOBER 05, 1997 TO OCTOBER 11, 1997

PART NAME					YEAR				
PART NUMBER	ACFT MODEL	Total	90	91	92	93	95	97	
CABLE 0510105224	172K	1	-	1	-	-	-	-	
	172M	1	-	-	-	-	-	1	
TOTAL ·		2		1				1	
BEARING									
07606331	182P	1	-	-	-	-	-	1	
	207	1	1	-	-	-	-	-	
TOTAL -		2	1					1	
OUTFLOW VALV	Е								
	C90	1	-	-	-	-	-	1	
TOTAL -		1						1	
SWITCH									
10648BH11	222	1	-	-	-	-	-	1	
	222 Ū	1	-	-	-	-	-	1	
TOTAL ·		2						2	
GOVERNOR									
34828014	M20C	1	-	-	-	-	-	1	
TOTAL -		1						1	
SPAR CAP									
41513102	415C	3	1	1	-	1	-	-	
	415E	1	-	-	-	-	-	1	
TOTAL ·		4	1	1		1		1	
CABLE									
5052443931	E90	1	-	-	-	-	-	1	

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Run Date

17-Oct-97

FEDERAL AVIATION ADMINISTRATION SIGNIFICANT OCCURRENCE REPORT INDEX

Showing Specific Part Numbers and Aircraft Model by Year

FOR THE PERIOD OF: OCTOBER 05, 1997 TO OCTOBER 11, 1997

PART NAME					YEAR				
PART NUMBER	ACFT MODEL	Total	90	91	92	93	95	97	
TOTAL		1						1	
CHANNEL									
58130441	402C	11	2	1	5	1	1	1	
	404CESSNA	1	-	-	-	-	-	1	
TOTAL		12	2	1	5	1	1	2	
BOLTS									
NAS464P5	76	1	-	-	-	-	-	1	
	PA60600	1	-	1	-	-	-	-	
TOTAL		2		1				1	
WIRE									
OA23	208B	1	-	-	-	-	-	1	
TOTAL		1						1	

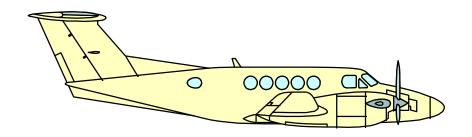
END OF REPORT

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DOMESTIC SERVICE DIFFICULTY REPORT



1	DC	7	/ []	C (QП	ГT	C	T	D	T 7	T	\sim 1	LT.	D.	TT	717	T	TT.	T	Т	T 7	T	T	T)(1	Dr	Г	C	T	N /		/	A 1	D٦	7		A 1	TD	T	A 1		1
	1)(/	н.,	•			н.	к	v			н.	.,	ı	1 H	- 1 (Y	- 1	< I	4, ا	7)	ĸ		•		W	ш	/	4	K '	Y	-	\mathbf{A}	IК	· K	ΑI	н	

10/5/97 TO 10/11/97 ISSUE 97-41

ZAC-327

ATA	REG. NO	ACFT MAKE	ENG MAKE	PROP MAKE	COMP MFG	PART NAME	PART COND	TT	DIFF. DATE
OPER	SERIAL NO	ACFT MODEL	ENG MDL	PROP MDL	COMP MDL	PART NUMBER	PART LOC.	TSO	OPER CONT NO
810	8251B	AMTR				VENT	PLUGGED		9/16/97
	1194142	RANSS7					FUEL TANK		97ZZZX4247
****	INVESTIGATION PUMP LINE, THE	REVEALED THE LT FU RT FUEL TANK WAS P	IEL TANK WAS EMPT RESSURIZED. UNAE	Y AND THE RT TANK SLE TO BLOW BACK	K WAS NEARLY FUI THROUGH VENT. B	AFT RECEIVED DAMAGE T .L. THE CARBURETOR BO' UILDER STATED WHEN IN GED DURING INSTALLAT	WLS WERE EMPTY. BY ISTALLING VENT, HE	Y BACK-BLO' FOUND IT TO	WING FROM THE FUEL BE BLOCKED AND HAD
3213	102KM	AMTRDF				GEAR LEG	FAILED	178	9/23/97
	1702	KITFOX					LT MLG		97ZZZX4249
****	AFTER AIRCRAF	T LANDED ON RUNWA	Y AND PROCEEDED	TO THE TAXIWAY. 1	THE LEFT LANDING	GEAR FAILED AT WELD	AREA.		
5711	2009X	BEECH				BOLTS	LOOSE	1486	9/8/97
	ME66	76				NAS464P5	WING CENTER		97ZZZX4250
****		JR INSPECTION, THE C D BY ONE-HALF TO ON				VING SPAR PLATE TO THE 100-140 INCH/POUND.	WING SPAR (I.E., 20 W	ING BOLTS)	WERE ALL FOUND
2133	22BM	BEECH			AIRESRCH	OUTFLOW VALVE	FAILED	6290	4/28/97
	LJ360	C90				1036481	CABIN		97ZZZX4284
****	CABIN CONTINU PLUG BLOCKING	ED TO OSCILLATE IN T GOUTLET CAUSING PR	THIS MANNER UNTIL ESSURIZATION FLUC	. PILOT DUMPED THE CTUATION. DEFECT I	E CABIN AND CONT IS COVERED IN BEE	THE SAFETY VALVE OPEN INUED UNPRESSURIZED. ICH SL (SL 1162 AND SL 110 THERE IS AN UNKNOWN	ON TEST FLIGHT, MEO 09) AND AIRESEARCH	CHANIC FOUL 5-2243, BUT I	ND VALVE RETAINER
2730	7TD	BEECH				CABLE	BROKEN	2754	9/18/97
OBCR	LW276	E90				5052443931	ELEVATOR CONT	ROI	97ZZZX4298
****						OUND ELEVATOR CABLE E SUGGEST RE-ROUTE BLEE		E ON A CLAN	MP ON THE BLEED AIR
2810	3700M	BEECH				FUEL CELL	LEAKING		8/26/97
	LW340	E90				929200203	LT NACELLE		97ZZZX4301
	WERE SET TO THE BLADDER.	IE OFF POSITION, FUEI DISCUSSIONS WITH BE	CONTINUED TO LEARENT AND SE	AK. AN INVESTIGAT VERAL FUEL CELL R	ION DISCLOSED TH EPAIR CENTERS IN	IVELY) JUST PRIOR TO EN E LEFT NACELLE MAIN F DICATED THAT NIPPLE M S OLD BE A CANDIDATE I	UEL LINE NIPPLE HAD ATERIAL COMPOSITIO	BECOME BR ON HAD BEEN	ITTLE AND CRACKED A I CHANGED AFTER 1979
2460	360ES	CESSNA			LAMAR	J BOX	FAILED	266	7/29/97
	17280010	172RG				M0012	FIRE WALL		97ZZZX4252
	NO BREAKERS T		BUNDLE RESTING O	N CIRCUIT BREAKER	R. WIRE BURNED O	PILOT COMMENTED SPAR UT LAYING ACROSS WAR			

DOME	STIC SERV	ICE DIFFICU	LIY KEPO	KT SUMMA	KY - AIRC	KAFT	10/5/97 TO 10/11/	9/ 1330E	2 97-41 ZAC-32
ATA	REG. NO	ACFT MAKE	ENG MAKE	PROP MAKE	COMP MFG	PART NAME	PART COND	TT	DIFF. DATE
OPER	SERIAL NO	ACFT MODEL	ENG MDL	PROP MDL	COMP MDL	PART NUMBER	PART LOC.	TSO	OPER CONT NO
2710	13378	CESSNA				CABLE	FRAYED	4101	9/1/97
ESMR	17262714	172M				0510105224	LT AILERON		97ZZZX4270
****		AILERON CABLE WAS F TER RECOMMENDED (ARD TO SEE AREAS OF C N 0510105-224.	ABLE WERE FRAYED (T	OTAL TIME	ON CABLE 4,101.1
3340	20402	CESSNA				LANDING LIGHT	DETERIORATED	59	9/17/97
	17261261	172M				GE4522	BULB		97ZZZX4272
	LANDING LIGHT TIME.	REPLACED FOR BROK	EN ELEMENT. THIS	LAMP, AS WELL AS T	THE 4509 AND THE 4	596, HAVE DETERIORATI	ED TO THE POINT THE A	VERAGE LI	FE IS 50 HOURS TACH
2701	344K	CESSNA				BEARING	FAILED	11956	9/9/97
Q2AR	18263709	182P				07606331	CONTROL COLUM	N	97ZZZX4314
****	PILOT'S CONTRO	L COLUMN FORWARD	SUPPORT ROLLER E	BEARING FAILED ANI	CAUSED AILERON	CONTROL BINDING IN-F	LIGHT.		
2810	8433Q	CESSNA				FUEL CELL	LEAKING		9/22/97
	U20603292	U206F				303012	FITTINGS		97ZZZX4275
	OK CONDITION,	BUT ALL THE PARTS T	HAT WERE SUPPOSE	ED TO BE BONDED TO	THE TANK JUST P	/AL WAS PERISHED. TI JLLED OFF LIKE THE BOI 'A.I.R. OF MEMPHIS, TN.	NDING WAS NOT CORRE	ECTLY DONI	E. THIS TANK WAS
2810	8433Q	CESSNA				FUEL CELL	LEAKING		9/22/97
2810	8433Q U20603292	CESSNA U206F				FUEL CELL 303013	LEAKING FITTINGS		9/22/97 97ZZZX4274
2810	U20603292 FUEL CELL IS AN OK CONDITION,	U206F I FAA/PMA REPLACEMI BUT ALL THE PARTS T	HAT WERE SUPPOSE	ED TO BE BONDED TO	THE TANK JUST P		FITTINGS HE FITTINGS DISINTEGR NDING WAS NOT CORRE	ECTLY DONI	97ZZZX4274 TANK ITSELF WAS IN E. THIS TANK WAS
2810 7332	U20603292 FUEL CELL IS AN OK CONDITION,	U206F I FAA/PMA REPLACEMI BUT ALL THE PARTS T	HAT WERE SUPPOSE	ED TO BE BONDED TO	THE TANK JUST P	303013 /AL WAS PERISHED. TI JLLED OFF LIKE THE BOI	FITTINGS HE FITTINGS DISINTEGR NDING WAS NOT CORRE	ECTLY DONI	97ZZZX4274 TANK ITSELF WAS IN E. THIS TANK WAS

EMERGENCY POWER LEVER FOR REMAINDER OF FLIGHT. AIRCRAFT DIVERTED TO PRESCOTT AND LANDED WITHOUT INCIDENT. TROUBLE SHOT SYSTEM AND FOUND QA23 WIRE

DURING ROUTINE INSPECTION, TWO CHANNELS THAT SUPPORT THE NOSE LANDING GEAR ACTUATOR WERE FOUND CRACKED. AFTER REMOVING CHANNELS FOR REPLACEMENT,

FORWARD SUPPORT ZEE P/N 5813045-1 WAS DISCOVERED CRACKED AND DAMAGED. AIRCRAFT HAD NO HISTORY OF PROBLEMS ASSOCIATED WITH THE LANDING GEAR. AIRCRAFT

CHANNEL

58130441

CRACKED

NLG

FROM FUEL PUMP PRESSURE SWITCH CHAFED AND INTERMITTENTLY GROUNDING AT AFT END OF GLOVE BOX. INSTALLED AND ROUTED NEW WIRE. PERFORMED A

SATISFACTORY GROUND RUN WITH NO DISCREPANCIES. AIRCRAFT RETURNED TO SERVICE. (M)

TOTAL TIME 11,250 HOURS. SUBMITTER RECOMMENDED CLOSE INSPECTION OF THIS AREA.

***** DENOTES SIGNIFICANT OCCURRENCE

CESSNA

402C

2610Z

402C0068

5340

BR0A

9/16/97

97ZZZX4251

		ICE DIFFICU					DADE COM	TOTO	DIED DAME
ATA	REG. NO	ACFT MAKE	ENG MAKE	PROP MAKE	COMP MFG	PART NAME	PART COND	TT	DIFF. DATE
OPER	SERIAL NO	ACFT MODEL	ENG MDL	PROP MDL	COMP MDL	PART NUMBER	PART LOC.	TSO	OPER CONT NO
5720	767EA	CESSNA				BULKHEAD	CRACKED	8441	9/22/97
OEZA	402B1244	402B				082340063	TIP TANK RT AFT		97ZZZX4264
						ED IN COMPOUND BEND EPLACEMENT BULKHEA			IE EDGE. SUBMITTER
2750	444BC	CESSNA				CABLE	BROKEN		9/18/97
DBCR	414A0340	414A				500000863CR	RT FLAP		97ZZZX4255
	TURNBUCKLE A	ND CABLE TERMINAL I				HE FIRST SET OF PULLEY THE AREA WHERE THE	E CABLE SEPARATED IS	VERY DIFFI	CULT TO ACCESS.
2710	4614N	CESSNA				CABLE	MISMANUFACTUR	EEC	9/4/97
	5500659	550				1455077645	AILERON		97ZZZX4290
		THE TERMINAL END WA				SELAGE WAS FOUND TO MANUFACTURER WAS C			
2752	800LA	CESSNA				GEARBOX	SHAFT SHEARED	107	9/1/97
	5500295	550				556517538	FLAP		97ZZZX4297
	DRIVE GEAR SHE	EARED AT NARROW PC	RTION OF GEAR. TH	IIS IS UPDATED MOD	EL THAT IS SUPPOS	ED TO PREVENT SHEARI	NG SHAFT IN THIS LOC	ATION.	
5720	6034U	CHILD				CORD	FAILED	350	9/1/97
SPDR	5133	S2BPITTS					RIB LACE		97ZZX4306
	BOTTOM. A FAB LACING CORD H. BREAKING. RIB	RIC PUNCH TEST WAS AD BROKEN ALLOWIN LACING CORD WAS WA	COMPLETED AND FO G FABRIC TO LIFT F AXED COTTON CORI	OUND FABRIC OK. U ROM THE RIBS. A PU D. THE COMPLETE A	NDER SUPERVISION LL TEST OF THE RI CFT WAS COVERED	. SUCTION CUP WAS ABI NOF THE FAA, TOP WING B LACING CORD REVEAI DUSING GRADE 'A' COTTO BEEN C/W ANNUALLY.	FABRIC WAS DISSECTE LED THE CORD ONLY PU	ED IN LOOSE JLLED 25 TO	AREA AND FOUND RIB 30 POUNDS BEFORE
2120	9WA	CONAER				HOSE	OMITTED		9/18/97
	520	LA4200					ALTERNATOR		97ZZX4258
	THE 2 (050 27 HC	SE CONNECTS THE AL	TERMATOR COOLIN	IC DODT TO THE ELE	ZIDI E DIICT (CCAT	HOGE) THAT DRINGS AIR	PEROM A DOME ENGINE	TO THE ALT	

THE 2-6050-27 HOSE CONNECTS THE ALTERNATOR COOLING PORT TO THE FLEXIBLE DUCT (SCAT HOSE) THAT BRINGS AIR FROM ABOVE ENGINE TO THE ALTERNATOR. THIS NON-CONDUCTIVE HOSE HAD BEEN OMITTED (AFTER ENGINE CHANGE) WHICH ALLOWED THE WIRE IN THE FLEX DUCT TO CHAFE ON AND MAKE CONTACT WITH THE ALTERNATOR FIELD TERMINAL CAUSING ALTERNATOR/REGULATOR FAILURE.

5312 332CH BONDING 904 DIAMON CRACKED 9/11/97 DA20A1 10032 TAILCONE BLKHD 97ZZZX4261

DURING A PRE-PURCHASE INSPECTION, A CRACK WAS NOTICED IN THE BONDING PASTE (THICKENED RESIN) ATTACHING THE AFT BULKHEAD TO THE TAIL CONE AT THE LOWER LEFT CORNER. THE CRACK IS 2.25 INCHES LONG. THE MANUFACTURER STATED THIS TYPE OF CRACK OCCURS FROM STRIKING THE TAIL ON THE GROUND (OVER ROTATING) ON TAKEOFF. SUBMITTER RECOMMENDED INSTALLING A SHOCK ABSORBING MATERIAL ONTO THE TAIL SKID IN PLACE OF THE NYLON ABRASION STRIP.

ATA	REG. NO	ACFT MAKE	ENG MAKE	PROP MAKE	COMP MFG	PART NAME	PART COND	TT	DIFF. DATE
OPER	SERIAL NO	ACFT MODEL	ENG MDL	PROP MDL	COMP MDL	PART NUMBER	PART LOC.	TSO	OPER CONT NO
5610	56294	MAULE				WINDOW	RIVETS FAILED		9/9/97
	9001C	M5210TC					RT FRONT		97ZZZX4276
****	FRONT WINDOW	RIVETS FAILED IN-FLI	GHT LEADING TO T	OTAL LOSS OF RT FF	RONT WINDOW FRO	M THE AIRCRAFT. TT: 90	02 HOURS.		
3260	7667P	PIPER				MOUNT	DISPLACED	3121	8/1/97
	242880	PA24180					GEAR WARN SWI	TCF	97ZZZX4263
	CLOSER LOOK SI MAXIMUM POSIT	HOWED THE SWITCH M	OUNT ON THROTTL OTTLE ROD. THE S	E HAD BEEN PUSHE WITCH MOUNT LOOF	D AWAY FROM A SI KED LIKE IT WAS M	IORN. WHEN LIFTED AIR HAFT NOT ALLOWING SW OVED FROM CONTACT W	TITCH TO OPERATE. A	LSO, SWITCH	WAS ADJUSTED TO
5720	8079Y	PIPER				DOUBLER	CRACKED	6547	9/22/97
	288016049	PA28161				6206102	WING WALK		97ZZZX4273
		SKIN WAS FOUND TO ALL ALONG THE BUTT I		O ON. INVESTIGATIO	ON REVEALED THE	REINFORCEMENT DOUBI	ER RIVETED TO THE U	JNDERSIDE OI	F THE WING WALK SKIN
2820	41879	PIPER			AEROQUIP	HOSE	LEAK	2218	9/5/97
Q2AR	317712069	PA31325				6010008	FUEL SYSTEM		97ZZZX4313
						OR INSPECTION FOR HARI D. ORIGINAL HOSES MAI			LEAK FUEL THROUGH
3245	7235L	PIPER			PARKERHAN	TUBE	PUNCTURED		9/2/97
LECA	31357	PA31310			40140	600X6	NLG		97ZZZX4319
						OKE AND SLOWED AIRCR LACEMENT AD HAD BEEI			
3244	160NA	PIPER			GOODYEAR	TIRE	FAILED	187	9/25/97
	31T7720060	PA31T				65010	LT/RT MLG		97ZZZX4271
	REPLACED WITH DOOR ACTUATO USING EMERGEN	NEW. NEXT FLIGHT, I R BOTTOM FITTING. A	RT TIRE S/N 41462322 S THE GEAR RETRA E TIRE REMAINED PI	LOST ITS TREAD ON CTED, HYDRAULIC F ROPERLY INFLATED	N INBOARD SIDE FU LUID FOR THE ENC	DARD SIDE OF THE TREAI ILL CIRCUMFERENCE DU INE DRIVEN PUMPS WAS FUL LANDING WAS MADI	RING TAKEOFF, BREAI DEPLETED, AND GEAI	KING OFF THE R HAD TO BE I	ERT INBOARD GEAR HAND PUMPED DOWN
3246	62295	PIPER				WHEEL	CRACKED	2921	9/1/97
Q2AR	32R7680336	PA32R300				4090A	INBOARD HALF		97ZZZX4315
	INSPECTION FOU	ND INBOARD PORTION	OF WHEEL HALF B	EAD CRACKED ONE-	THIRD WAY AROU	ND WHEEL CAUSING WHI	EEL TO CONTACT BRA	KE CYLINDER	2.
8120	722ET	PIPER	LYC			CLAMP	FAILED	295	9/9/97
			TTO # 10 1 TO 1						

AT ALTITUDE, TURBOCHARGER FAILED DUE TO INTER COOLER CLAMP SEPARATION. THIS IS SECOND SET OF CLAMPS THAT HAVE SEPARATED. THE CRIMPED END HAS COME

LW15592832

TURBOCHARGER

463047

APART.

PA46350P

TIO540AE2A

97ZZZX4286

DOME	STIC SERV	ICE DIFFICU	JLTY REPO	RT SUMMA	ARY - AIRC	RAFT	10/5/97 TO 10/1	1/97 ISSUE	97-41	ZAC-327
ATA	REG. NO	ACFT MAKE	ENG MAKE	PROP MAKE	COMP MFG	PART NAME	PART COND	TT	DIFF. D	ATE
OPER	SERIAL NO	ACFT MODEL	ENG MDL	PROP MDL	COMP MDL	PART NUMBER	PART LOC.	TSO	OPER C	ONT NO
5711	94827	UNIVAR				SPAR CAP	CORRODED	2361	9/19/97	
	4941	415E				41513102	RT WING		97ZZZX	1257
****						WING WAS REMOVED FO ED ON BOTTOM SKIN PAI			TION. CORRO	OSION
5720	87114	UNIVAR				REINFORCEMENT	CORRODED	3938	8/1/97	
	287	415C				14050R	RT WING		97ZZZX	1302
						CORROSION COULD NOT I				

WING AND AILERON. SUBMITTER RECOMMENDED OTHER OWNERS INSPECT BEFORE NEXT FLIGHT AND 3 TO 4 TIMES A YEAR THEREAFTER.

DOME	STIC SERV	ICE DIFFICU	ULTY REPO	RT SUMMA	RY - HELI	COPTERS	10/5/97 TO 10/11	1/97 ISSUE	97-41 ZAC-327
ATA	REG. NO	ACFT MAKE	ENG MAKE	PROP MAKE	COMP MFG	PART NAME	PART COND	TT	DIFF. DATE
OPER	SERIAL NO	ACFT MODEL	ENG MDL	PROP MDL	COMP MDL	PART NUMBER	PART LOC.	TSO	OPER CONT NO
3416	109RX	AGUSTA				ALTIMETER	INOPERABLE	1496	3/14/97
R7MA	10016	A109K2				641110991	COCKPIT	1	R7MA0000232
	MODE 'C' IS INOP	ERABLE. TRANSPOND	ER READS DASH MA	ARKS INSTEAD OF TH	IE ALTITUDE. (X)				
3416	109RX	AGUSTA				ALTIMETER	INOPERABLE	1496	3/17/97
R7MA	10016	A109K2				641110991	COCKPIT		R7MA0000231
	MODE 'C' IS INOP	ERABLE. TRANSPOND	DER READS ONLY DA	ASH MARKS INSTEAD	OF THE ALTITUDE.	. (X)			
6240	2251Z	BELL				TACH GEN	WORN		9/30/97
HEEA	45756	206L1				206076373001	M/R		HEEA0011108
	TACH GEN WOR	N SHAFT COUPLING SP	LINES.						
6310	3116P	BELL				SEAL	LEAK	34	9/30/97
HEEA	51530	206L3				206340105101	FREEWHEEL		HEEA0011112
	FREEWHEEL LEA	AKING. NOTE: ANOTH	ER SEAL WAS REMO	OVED FOR LEAKING V	WITH A TOTAL TIME	E OF 64:20 ON 7-16-97.			
5330		BELL				PANEL ASSY	MIS MFG		9/30/97
HEEA		212				212030065151A	FUSELAGE		HEEA0011110
	FORWARD EDGE	OF PANEL 1/4" SHORT	TO MAINTAIN COR	RECT RIVET EDGE DI	STANCE. ALL OTH	ER AREAS ARE CORRECT	. PANEL IS JUST TOO S	SHORT ON FO	RWARD EDGE.
7100	1079U	BELL				HARNESS	FAILED		9/30/97
HEEA	31122	212				3024340	ENGINE		HEEA0011102
	HARNESS BURN	Γ PROBE TIP.							
2432	8045T	BELL				CHARGER	MALFUNCTION		9/30/97
HEEA	28101	214ST				214175379103	BATTERY		HEEA0011106
	BATTERY WILL I	NOT TOP CHARGE.							
6720	5748M	BELL				ACTUATOR ASSY	MALFUNCTION		9/30/97
HEEA	28102	214ST				214001540109	T/R CONTROL		HEEA0011105
	PITCH KICKS OF	F ON LANDING AND TA	AKE OFF.						

DOME	ESTIC SERV	ICE DIFFICU	JLTY REPO	RT SUMMA	RY - HELI	COPTERS	10/5/97 TO 10/11	/97 ISSUE	97-41	ZAC-327
ATA	REG. NO	ACFT MAKE	ENG MAKE	PROP MAKE	COMP MFG	PART NAME	PART COND	TT	DIFF. D	ATE
OPER	SERIAL NO	ACFT MODEL	ENG MDL	PROP MDL	COMP MDL	PART NUMBER	PART LOC.	TSO	OPER C	CONT NO
2823	40EA	BELL				SWITCH	FAILED	1586	9/5/97	
	47061	222				10648BH11	FUEL SOV		97ZZZX	4316
****	MECHANICAL LO	OCKING (INTERNAL). S	SUBMITTER RECOMM	MENDS REPLACEMEN	NT OF SWITCH FOLI	IGINE TO SHUT DOWN DU LOWING 7,500 CYCLES OF ND GROUND RUNS, ETC.				
2211	7128R	BELL				COMPUTER	FAILED TEST		9/30/97	
HEEA	36007	412				4025008918	AFCS		HEEA00	011104
	FAILED TEST 13.2	2 AND 13.3 IN PITCH ON	N SST.							
2820	3893P	BELL				SWITCH	FAILED		8/21/97	
HEEA	33012	412				72121000	FUEL SYS		HEEA00	10857
	NO POWER TO A	UX. FUEL SYSTEM. SW	ITCH FAILED.							
5260	3893N	BELL				ACTUATOR	FAILED		9/29/97	
HEEA	33010	412				212075418105	STEP		HEEA00	11097
	STEP ACTUATOR	POPS CIRCUIT BREAK	ER.							
5260	107X	BELL				ACTUATOR	DEFECTIVE		9/29/97	
HEEA	33113	412				212075418105	STEP		HEEA00	11098
	STEP ACTUATOR	POPS CIRCUIT BREAK	ER.							
5531		BELL				SPAR	DAMAGED		9/9/97	
HEEA		412				204031826023	AFT FIN		HEEA00	10986
	R/H SIDE OF SPAI	R 1/8" SHORTER THAN	EXISTING SPAR. DA	MAGE TOP L/H RADI	US AS MARKED IN I	RED.				
5531		BELL				SPAR	DAMAGED		9/9/97	
HEEA		412				204031826023	AFT FIN		HEEA00	10985
	R/H SIDE OF SPAI	R 1/8" SHORTER THAN	EXISTING SPAR. DA	MAGE TOP L/H RADI	US					
6320	HL923	BELL				INDICATOR	FAILED		9/30/97	
HEEA	33150	412				212075036101	GR BOX OIL PRES	SS	HEEA00)11111
	GR BOX OIL PRES	SS SIDE DOESN'T INDIC	CATE.							

DOME	STIC SERV	ICE DIFFICU	LTY REPO	RT SUMMA	RY - HELI	COPTERS	10/5/97 TO 10/11/97	ISSUE	97-41	ZAC-327
ATA	REG. NO	ACFT MAKE	ENG MAKE	PROP MAKE	COMP MFG	PART NAME	PART COND	TT	DIFF. DA	TE
OPER	SERIAL NO	ACFT MODEL	ENG MDL	PROP MDL	COMP MDL	PART NUMBER	PART LOC.	TSO	OPER CO	ONT NO
6710	2149S	BELL				ACTUATOR ROTARY	FAILED		9/30/97	
HEEA	36002	412				214001347005	M/R CONTROL		HEEA001	1107
	ROTARY ACTUAT	TOR WILL NOT MOTOR								
7250	818SH	BOLKMS	ALLSN			1ST STG WHEEL	SULFIDATION	1088	9/29/97	
HEEA	S753	BO105S	250C20B		6898735	6886407	TURBINE		HEEA001	1099
	ENGINE REMOVE	D DUE TO LOW POWER	R. UPON INSPECTION	N OF TURBINE PARTS	S NOTED: MINOR S	ULPHIDATION ON ALL #1 \	WHEEL BLADES. SCRAPF	ED WHEEL	<i>z</i> .	
7931	5029H	BOLKMS				INDICATOR	READS HIGH		9/30/97	
HEEA	S670	BO105S				10590873	TRIPLE OIL PRESS		HEEA001	1109
	#1 ENGINE OIL PR	ESSURE READS HIGH	OUT OF TOLERANCE	Е.						

DMESTIC SERVICE DIFFICULTY REPORT SUMMARY - ENGINI	DOMESTIC
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10/5/97 TO 10/11/97 ISSUE 97-41

ZAC-327

ATA	REG. NO	ACFT MAKE	ENG MAKE	PROP MAKE	COMP MFG	PART NAME	PART COND	TT	DIFF. DATE
PER	SERIAL NO	ACFT MODEL	ENG MDL	PROP MDL	COMP MDL	PART NUMBER	PART LOC.	TSO	OPER CONT NO
250	818SH	BOLKMS	ALLSN			1ST STG WHEEL	SULFIDATION	1088	9/29/97
EEA	S753	BO105S	250C20B		6898735	6886407	TURBINE		HEEA0011099
	ENGINE REMOVE	ED DUE TO LOW POWE	R. UPON INSPECTIO	N OF TURBINE PART	S NOTED: MINOR S	ULPHIDATION ON ALL #1	WHEEL BLADES. SCRA	PPED WHEEI	L.
322	4975V	CESSNA	LYC		FACET	CARBURETOR	STOP WORN		9/19/97
	172RG0440	172RG	O360F1A6			HA6	MIXTURE		97ZZZX4262
						HE SCREW TYPE MIX CONT ΓURE TO OVER-CENTER C.			LL RICH STOP. STOP IS
530		CESSNA	CONT			VALVE	STUCK	3780	9/1/97
		172	O300A				ENGINE EXHAUST		97ZZZX4303
	ENGINE FOUND	WITH EXHAUST VALVE	E STICKING OPEN. A	IRCRAFT HAD BEEN	RUN ON AUTO GAS	S. SMOH: 925 HOURS.			
7322	952CC	CESSNA	CONT			CARBURETOR	NOT MARKED		9/2/97
	18263638	182P	O470R			MA45	SERIAL NUMBER		97ZZZX4266
		TED REQUIRE PRECISION				ER AD 63-22-03. THE LETTE AVE PRODUCED THIS WA			
322	953CC	CESSNA	CONT			CARBURETOR	NOT MARKED		9/2/97
	18264109	182P	O470R			MA45	SERIAL NUMBER		97ZZZX4267
	NUMBER. SUBM		RE PRECISION AIRMO			RVEL-SCHEBELER AD 63-2 THEY HAVE PRODUCED T			
530		CESSNA	CONT			SPRING	BROKEN	180	9/17/97
		T310R	TSIO520B			637837	NR 3 CYL EXH VLV	7	97ZZZX4248
	ENGINE RUNNIN	G ROUGH. EXHAUST V	ALVE LEAKING ON	COMPRESSION TEST	. FOUND OUTER SP	PRING BROKEN 180 HOURS	S.F.R.		
520	4162G	CESSNA	CONT			CONNECTING ROD	BROKEN	2314	9/9/97
ТТА	421C0426	421C	GTSIO520L			632043	NR 6 CYLINDER	1062	97ZZZX4326
		EXPLOSIVELY WITH NO ECTING ROD MAY HA			,	RESSURE. ENGINE DISASS T.	EMBLED. INDICATION	S SHOW THA	AT POSSIBLY THE NR

DOMESTIC	SERVICE DIFFICIII	TY REPORT SUMMARY.	FNGINES
		,	

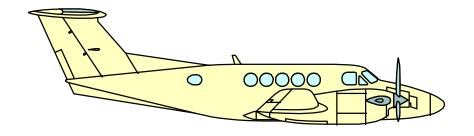
10/5/97 TO 10/11/97 ISSUE 97-41

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ATA	REG. NO	ACFT MAKE	ENG MAKE	PROP MAKE	COMP MFG	PART NAME	PART COND	TT	DIFF. DATE			
OPER	SERIAL NO	ACFT MODEL	ENG MDL	PROP MDL	COMP MDL	PART NUMBER	PART LOC.	TSO	OPER CONT NO			
260	787BA	CESSNA	PWA			BEVEL GEAR	FRACTURED	5014	7/22/97			
PJR	5000143	500CESSNA	JT15D1		3020694	3020692	GEARBOX	3254	97ZZZX4287			
	SHAFT DRIVE BE AND GOUGED BO INTRODUCED IN	EVEL GEAR DUE TO FA' OTH THE GEARBOX HO	TIGUE INITIATING A OUSING AND ITS COV 80), SUPERSEDED B	T A GEAR TOOTH RA /ER. TO ALLEVIATE	ADIUS. THE FRACTU THIS CONDITION, A	TDOWN WAS A RESULT FR JRED GEAR CAUSED MECI GEAR FEATURING AN IN FEATURING GEARS MANU	HANICAL DAMAGE TO CREASED MATERIAL T	ITS MATINO HICKNESS A	G INPUT GEAR TEETH AT THE GEAR WEB WA			
260	333CA	GULSTM	GARRTT			SHAFT	SHEARED	4719	9/1/97			
	11136	690A	TPE3315			31017261	TORQUE SENSOR		97ZZZX4308			
	MAINTENANCE F	*	OR SHAFT HAD SHEA	RED. THIS GEAR AL	SO DRIVES THE OIL	OT COMPLETED ENGINE : SCAVENGE PUMP AND TI						
3530		PIPER	LYC			VALVE	STICKING	2200	9/1/97			
		PA20135	O290D2				ENGINE EXHAUST		97ZZZX4305			
	FOUND ENGINE I	EXHAUST VALVE STIC	KING. AIRCRAFT HA	AD BEEN OPERATED	ON AVIA GAS. VAL	VE REQUIRED DISSASSEM	BLY, CLEANING, AND	LAPPING IN	. SMOH: 525 HOURS.			
414	40200	PIPER	LYC			BEARING	FAILED	1618	8/11/97			
	277304997	PA23250	IO540C4B5			67542	LT MAG DRIVE		97ZZZX4300			
		.GNETO DRIVE BEARIN ГНЕSE PARTS SHOULD				EARING INTO GEAR RETA	AINER ASSEMBLY PN L	W-19096. SU	JBMITTER STATES			
530	9083D	PIPER	LYC			PIN PLUG	FAILED		9/19/97			
	288690050	PA28181	O360A4M			60828	PISTON		97ZZZX4265			
						/ALL. UPON ZERO COMPR CONTROL RING DAMAGED						
414	4301C	PIPER	LYC		BENDIX	DISTRIBUTOR BLK	WORN		9/22/97			
FSA	318353001	PA31350	LTIO540J2BD		103493104	10391586	MAGNETO	94	97ZZZX4254			
	WORN OR LOOSE	E BEARING IN DISTRIB	UTOR BLOCK ALLO	WED DISTRIBUTOR C	GEAR ASSEMBLY TO) JUMP TEETH AND GET O	UT OF TIME WITH ROT	OR.				
530	415C	UNIVAR	CONT			VALVE	STUCK	2875	9/1/97			
		415C	C7512				ENGINE EXHAUST		97ZZZX4304			
	FOUND ENGINE EXHAUST VALVE STUCK. AIRCRAFT HAD BEEN RUN ON AUTO GAS. SMOH: 625 HOURS.											



INTERNATIONAL SERVICE DIFFICULTY REPORT



INTER	RNATIONAI	L SERVICE D	IFFICULTY	REPORT S	UMMARY	- AIRCRAFT	10/5/97 TO 10/1	1/97 ISSUE	97-41 ZAC-327
ATA	REG. NO	ACFT MAKE	ENG MAKE	PROP MAKE	COMP MFG	PART NAME	PART COND	TT	DIFF. DATE
OPER	SERIAL NO	ACFT MODEL	ENG MDL	PROP MDL	COMP MDL	PART NUMBER	PART LOC.	TSO	OPER CONT NO
								#Error	
								#Error	
	#Error								

INTER	INTERNATIONAL SERVICE DIFFICULTY REPORT - HELICOPTERS											
ATA	REG. NO	ACFT MAKE	ENG MAKE	PROP MAKE	COMP MFG	PART NAME	PART COND	TT	DIFF. DATE			
OPER	SERIAL NO	ACFT MODEL	ENG MDL	PROP MDL	COMP MDL	PART NUMBER	PART LOC.	TSO	OPER CONT NO			
								#Error				
								#Error				
	#Error											

INTE	RNATIONAL	SERVICE D	IFFICULTY	REPORT S	UMMARY .	- ENGINES	10/5/97 TO 10/11/	97 ISSUE	97-41	ZAC-327	
ATA	REG. NO	ACFT MAKE	ENG MAKE	PROP MAKE	COMP MFG	PART NAME	PART COND	TT	DIFF. DA	TE	
OPER	SERIAL NO	ACFT MODEL	ENG MDL	PROP MDL	COMP MDL	PART NUMBER	PART LOC.	TSO	OPER CO	ONT NO	
7414		DHAV	PWA		BOSCH	BEARING	WORN		7/16/97		
		DHC2MK1	R985AN14B		SB9RU3		MAG ROTOR SHAF	Г 276	CA97072	8015	
	(CAN) ENGINE RU TOLERANCE.	JNNING ROUGH AND B	ACKFIRING. INVEST	TIGATION FOUND TH	E MAGNETO ROTO	R SHAFT BEARING WORN	RESULTING IN THE BR	EAKER POIN	TS MOVING C	OUT OF	
7210		DHAV	PWA			TRANSFER SLEEVE	SCORED	1235	7/13/97		
		DHC6100	PT6A20			3011527	RED GR BOX		CA97072	8003	
	(CAN) DURING INSEPECTION OF THE REDUCTION GEAR NOSE CASE CHIP DETECTOR AND OIL SCREENS, SUBSTANTIAL AMOUNTS OF METAL PARTICLES WERE FOUND. THE ENGINE WAS REMOVED AND SENT FOR INSPECTION AND REPAIR. DISASSEMBLY REVEALED THE PROPELLER SHAFT TRANSFER SLEEVE HAD SEIZED ON THE PROPELLER SHAFT. NO OTHER DAMAGE WAS DETECTED. THE REPAIR AND INSPECTION WAS COMPLETED AND THE ENGINE WAS RETURNED TO SERVICE.										



SERVICE DIFFICULTY REPORT SUMMARY

GENERAL AVIATION - INDEX



The following information provides a tally of the Service Difficulty Reports (SDR's) contained in this weeks issue of the General Aviation SDR Summary. The totals represent only a summation of the SDR's that were submitted to the FAA, Aviation Data Systems Branch, AFS-620, and processed in time for inclusion in the Summary. The first table is a tally of the number of SDR's submitted through the indicated Flight Standards District Office (FSDO). The second table sorts the SDR's by the aircraft or equipment make and model. The heading at the top of each table provides a two digit Joint Aircraft System/Component (JASC) code grouping (e.g., JASC codes 1100 thru 1800 are represented by the heading labeled 11-18) which categorizes in general, the problem areas for each reported discrepancy.

The Flight Standards Service Difficulty Program objective is to achieve prompt and appropriate correction of conditions adversely affecting continued airworthiness of aeronautical products. This is accomplished by the collection of Service Difficulty and Malfunction or Defect Reports. SDR's are consolidation and collation into common data base where they are analyzed for trends, problems, and alert information. This information is then disseminated to the appropriate segments of the aviation community and to other FAA offices.

The number of SDR's submitted is not an indicator of the mechanical reliability or fitness of an air carrier's aircraft fleet and should not be used as such. The air carriers certificate holding office has the primary responsibility for planning, programming evaluations, and assessing the performance of operators. Questions regarding an air carrier's fleet performance should be directed to the appropriate Flight Standards District Office, Certificate Management Office, or Certificate Management Unit.

AL AVIATIO	N SUMMA	RY INDE				10/5/97 TO 10	11/9/ ISSUE	97-41	ZAC-327
DISTRICT OFFICE	11-18	21-29	SDR TOTA 30-38	ALS BY FAA A 45-49	TA SYSTEM 51-57	I CHAPTER 61-67	71-79	80-85	TOTAI
AL 01	0	0	0	0	0	0	1	0	101A1
CA	0	0	0	0	0	2	2	0	4
CE 03	0	1	0	0	1	0	1	0	3
EA 07	0	0	0	0	0	0	0	1	1
EA 11	0	0	0	0	0	0	1	0	1
EA 21	0	0	0	0	1	0	0	0	1
EA 23	0	0	0	0	0	0	1	0	1
GL 13	0	2	0	0	0	0	0	0	2
GL 19	0	0	0	0	1	1	0	0	2
GL 21	0	0	0	0	0	0	0	1	1
GL 23	0	1	0	0	0	0	2	0	3
NE 01	0	0	1	0	0	0	0	0	1
NE 03	0	0	0	0	0	0	0	1	1
NE 05	0	0	1	0	0	0	0	0	1
NM 11	0	0	2	0	2	0	0	0	4
NM 13	0	0	0	0	0	0	1	0	1
SO 05	0	1	0	0	0	0	0	0	1
SO 09	0	0	1	0	0	0	0	0	1
SO 11	0	1	0	0	0	0	0	0	1
SO 13	0	1	0	0	0	0	0	0	1
SO 15	0	1	0	0	0	0	0	0	1
SO 16	0	0	0	0	1	0	0	0	1
SO 17	0	0	0	0	0	1	0	0	1
SW 03	0	3	0	0	5	5	3	0	16
SW 11	0	0	0	0	1	0	0	0	1

SW 13

GENERAL AVIATIO	N SUMMA	RY INDEX	X BY DIST	RICT OF	FICE	10/5/97 TO 10	/11/97 ISSUE	97-41	ZAC-327			
DISTRICT		SDR TOTALS BY FAA ATA SYSTEM CHAPTER										
OFFICE	11-18	21-29	30-38	45-49	51-57	61-67	71-79	80-85	TOTAL			
SW 17	0	3	2	0	0	1	0	3	9			
SW 99	0	1	1	0	0	0	1	0	3			
WP 01	0	0	2	0	0	0	0	0	2			
WP 07	0	1	0	0	0	0	0	0	1			
WP 19	0	0	0	0	2	0	0	1	3			
WP 23	0	2	0	0	0	0	0	0	2			

TOTALS

GENERAL	AVIATION	N SUMMARY	BY M	ANUFACT.	MAKE A	ND MODEL	10/5/9	97 TO 10/11/97	ISSUE 97-41	ZAC-327
AIRCRAFT	AIRCRAFT			SDR TOTAL	LS BY FAA A	TA SYSTEM CHA	PTER			
MAKE	MODEL	11-18	21-29	30-38	45-49	51-57	61-67	71-79	80-85	TOTAL
AGUSTA	A109K2	0	0	2	0	0	0	0	0	2
AMTR	RANSS7	0	1	0	0	0	0	0	0	1
AMTRDF	KITFOX	0	0	1	0	0	0	0	0	1
BEECH	200BEECH	0	0	1	0	0	0	0	0	1
BEECH	76	0	0	0	0	1	0	0	0	1
BEECH	B200	0	0	0	0	0	1	0	0	1
BEECH	C90	0	1	0	0	0	0	0	0	1
BEECH	E90	0	2	0	0	0	0	0	0	2
BELL	206L1	0	0	0	0	0	1	0	0	1
BELL	206L3	0	0	0	0	0	1	0	0	1
BELL	212	0	0	0	0	1	0	1	0	2
BELL	214ST	0	1	0	0	0	1	0	0	2
BELL	222	0	1	0	0	0	0	0	0	1
BELL	412	0	2	0	0	4	2	0	0	8
BOLKMS	BO105S	0	0	0	0	0	0	2	0	2
CESSNA	172	0	0	0	0	0	0	0	1	1
CESSNA	172M	0	1	1	0	0	0	0	0	2
CESSNA	172RG	0	1	0	0	0	0	1	0	2
CESSNA	182P	0	1	0	0	0	0	2	0	3
CESSNA	208B	0	0	0	0	0	0	1	0	1
CESSNA	402B	0	0	0	0	1	0	0	0	1
CESSNA	402C	0	0	0	0	1	0	0	0	1
CESSNA	414A	0	1	0	0	0	0	0	0	1
CESSNA	421C	0	0	0	0	0	0	0	1	1
CESSNA	500CESSNA	0	0	0	0	0	0	1	0	1
CESSNA	550	0	2	1	0	0	0	0	0	3

GENERAL	AVIATION	SUMMAR	Y BY MA					7 TO 10/11/97	ISSUE 97-41	ZAC-327
AIRCRAFT MAKE	AIRCRAFT MODEL	11.10	•4 •0			TA SYSTEM CH		-1 -0	00.05	mom
		11-18	21-29	30-38	45-49	51-57	61-67	71-79	80-85	TOTAL
CESSNA	T310R	0	0	0	0	0	0	0	1	1
CESSNA	U206F	0	2	0	0	0	0	0	0	2
CHILD	S2BPITTS	0	0	0	0	1	0	0	0	1
CONAER	LA4200	0	1	0	0	0	0	0	0	1
DHAV	DHC2MK1	0	0	0	0	0	0	1	0	1
DHAV	DHC6100	0	0	0	0	0	0	1	0	1
DIAMON	DA20A1	0	0	0	0	1	0	0	0	1
GULSTM	690A	0	0	0	0	0	0	1	0	1
MAULE	M5210TC	0	0	0	0	1	0	0	0	1
MOONEY	M20C	0	0	0	0	0	1	0	0	1
PIPER	PA20135	0	0	0	0	0	0	0	1	1
PIPER	PA23250	0	0	0	0	0	0	1	0	1
PIPER	PA24180	0	0	1	0	0	0	0	0	1
PIPER	PA28161	0	0	0	0	1	0	0	0	1
PIPER	PA28181	0	0	0	0	0	0	0	1	1
PIPER	PA31310	0	0	1	0	0	0	0	0	1
PIPER	PA31325	0	1	0	0	0	1	0	0	2
PIPER	PA31350	0	0	0	0	0	0	1	0	1
PIPER	PA31T	0	0	1	0	0	2	0	0	3
PIPER	PA32R300	0	0	1	0	0	0	0	0	1
PIPER	PA46350P	0	0	0	0	0	0	0	1	1
SLNGAV	T67M260	0	1	0	0	0	0	0	0	1
UNIVAR	415C	0	0	0	0	1	0	0	1	2

UNIVAR

415E

TOTALS

JOINT AIRCRAFT SYSTEM/COMPONENT CODE TABLE

PREFACE

The Joint Aircraft System/Component (JASC) Code Table is a modified version of the Air Transport Association of America (ATA), Specification 100 code. It was developed by the Federal Aviation Administration's (FAA), Aviation Data Systems Branch (AFS-620). Technical support was provided by the Galaxy Scientific Corporation, and various representatives of the air carrier and general aviation community.

Over the past four years, the JASC format of the ATA Spec 100 code has gained widespread industry acceptance. In a harmonized effort, the FAA's counterparts in Australia and Canada have adopted the JASC code with only a few exceptions. Some Canadian aircraft manufacturers have also recently adopted this new stardard.

This code table is constructed by using the new JASC four (4) digit code, along with an abbreviated code title. The abbreviated titles have been modified in some cases to clarify the intended use of the accompanying code. This table can be used as a quick reference chart, to assist in the coding and review of aircraft structures or systems data (i.e., Service Difficulty Report (SDR), Accident/Incident Report).

The current coding scheme used in the JASC code was introduced in May 1991, for the technical classification of SDR's. Its predecessor, the FAA aircraft system/component code, was a similar but more complex eight-digit code which was developed over 25 years ago. It was constructed around the computer technology of that period. It consisted of a four digit numerical code plus a four alpha character code to make data retrieval possible. Since that time, computer technology has advanced many fold. Reducing the code from eight to four characters simplifies coding, and in some cases, makes JASC coding match the ATA Specification 100 first three digits, which are used to identify aircraft systems. The ATA code does not reference the fourth digit, so it is free to be used for identifying components.

The JASC code aircraft structural section has increased due to problems inherent with aging aircraft. As an example, FAA code 5301 SXBD was expanded to 20 items due to the high rate of reporting in this area (8021 structural reports were received in 1989). In some instances, there was very little reporting and codes were combined into other systems if the safety impact was not significant. The overall reduction in codes has been from 568 FAA codes to 488 JASC codes, with the significant increase being in the structural area as stated earlier.

The JASC code divides the engine section into two major code groups to separate the turbine and reciprocating engines. The codes for the turbine engines are in JASC Chapter 72, Turbine/Turboprop Engine. The codes for the reciprocating engines are now exclusively found in JASC Chapter 85, Reciprocating Engine.

The other major deviation from ATA Spec 100 is in ATA section 2730, specifically involves the stall warning system. Early technology (primarily on smaller aircraft) directly linked the sensing of flight attitude to one of the components which furnished the means of manually controlling the flight attitude characteristics (elevator). Today, most large transport category aircraft utilize electronic units to sense the change in the environmental condition called stall, and use the data to influence navigation. ATA section 3410, Flight Environment Data, includes high speed warning in its code definition. Stall warning (low speed) is the reciprocal term of high speed warning, so its filing under the same code appears more logical. Thus, with the JASC code it was decided to move the stall warning system to Chapter 34 under the separate code JASC code 3418, Stall Warning System.

The FAA is continuing to pursue worldwide involvement from operators and manufacturers in addressing the need for international standardization of aircraft system/component codes. The ultimate goal is to develop a universal aircraft/component numbering standard which can be used in the manufacturer's maintenance manual, wiring diagram manual, system manuals and illustrated parts catalog. This harmonized standard must be a usable standard for the aircraft manufacturers, air carrier operators and the general aviation community.

We welcome comments and feedback regarding the possible forming of working groups to achieve this long range consideration of possibly harmonizing the ATA Specification 100 code and the JASC code. Comments may be directed to the FAA, Aviation Data Sytem Branch, AFS-620, P.O. Box 25082, Oklahoma City, OK 73125.

JOINT AIRCRAFT SYSTEM/COMPONENT CODE TABLE

JASC/ TITLE

<u>11 P</u>	LACARDS AND MARKINGS	22 A	UTO FLIGHT	<u> 24 E</u>	LECTRICAL POWER CONT'D		
1100	PLACARDS AND MARKINGS	2200	AUTO FLIGHT SYSTEM	2424	AC REGULATOR		
		2210	AUTOPILOT SYSTEM	2425	AC INDICATING SYSTEM		
12 S	ERVICING	2211	AUTOPILOT COMPUTER	2430	DC GENERATING SYSTEM		
		2212	ALTITUDE CONTROLLER	2431	BATTERY OVERHEAT WARN. SYSTEM		
1210	FUEL SERVICING	2213	FLIGHT CONTROLLER	2432	BATTERY/CHARGER SYSTEM		
1210	OIL SERVICING	2214	AUTOPILOT TRIM INDICATOR	2433	DC RECTIFIER-CONVERTER		
1230	HYDRAULIC FLUID SERVICING	2215	AUTOPILOT MAIN SERVO	2434	DC GENERATOR-ALTERNATOR		
1240	COOLANT SERVICING	2216	AUTOPILOT TRIM SERVO	2435	STARTER-GENERATOR		
1240	COOLAINT SERVICING	2220	SPEED-ATTITUDE CORRECT. SYSTEM	2436	DC REGULATOR		
18 HELICOPTER VIBRATION		2230	AUTO THROTTLE SYSTEM	2437	DC INDICATING SYSTEM		
		2250	AERODYNAMIC LOAD ALLEVIATING	2440	EXTERNAL POWER SYSTEM		
1800	HELICOPTER VIB/NOISE ANALYSIS			2450	AC POWER DISTRIBUTION SYSTEM		
1810	HELICOPTER VIBRATION ANALYSIS	<u>23 C</u>	OMMUNICATIONS	2460	DC POWER/DISTRIBUTION SYSTEM		
1820	HELICOPTER NOISE ANALYSIS	0000	00444444040474044				
21 Δ	IR CONDITIONING	2300	COMMUNICATIONS SYSTEM	<u>25 E</u>	QUIPM ENT/FURNISHINGS		
<u></u>	THE CONDITIONING	2310	HF COMMUNICATION SYSTEM	2500	CABIN EQUIPMENT/FURNISHINGS		
2100	AIR CONDITIONING SYSTEM	2311	UHF COMMUNICATION SYSTEM				
2100 2110	AIR CONDITIONING SYSTEM CABIN COMPRESSOR SYSTEM	2312	VHF COMMUNICATION SYSTEM	2510	FLIGHT COMPARTMENT EQUIPMENT		
		2312 2320	VHF COMMUNICATION SYSTEM DATA TRANSMISSION AUTO CALL				
2110	CABIN COMPRESSOR SYSTEM	2312 2320 2330	VHF COMMUNICATION SYSTEM DATA TRANSMISSION AUTO CALL ENTERTAINMENT SYSTEM	2510 2520 2530	FLIGHT COMPARTMENT EQUIPMENT PASSENGER COMPARTMENT EQUIPMENT		
2110 2120 2121 2130	CABIN COMPRESSOR SYSTEM AIR DISTRIBUTION SYSTEM AIR DISTRIBUTION FAN CABIN PRESSURE CONTROL SYSTEM	2312 2320 2330 2340	VHF COMMUNICATION SYSTEM DATA TRANSMISSION AUTO CALL ENTERTAINMENT SYSTEM INTERPHONE & PA SYSTEM	2510 2520	FLIGHT COMPARTMENT EQUIPMENT PASSENGER COMPARTMENT EQUIPMENT BUFFET/GALLEYS		
2110 2120 2121 2130 2131	CABIN COMPRESSOR SYSTEM AIR DISTRIBUTION SYSTEM AIR DISTRIBUTION FAN CABIN PRESSURE CONTROL SYSTEM CABIN PRESSURE CONTROLLER	2312 2320 2330 2340 2350	VHF COMMUNICATION SYSTEM DATA TRANSMISSION AUTO CALL ENTERTAINMENT SYSTEM INTERPHONE & PA SYSTEM AUDIO INTEGRATING SYSTEM	2510 2520 2530 2540	FLIGHT COMPARTMENT EQUIPMENT PASSENGER COMPARTMENT EQUIPMENT BUFFET/GALLEYS LAVATORIES		
2110 2120 2121 2130	CABIN COMPRESSOR SYSTEM AIR DISTRIBUTION SYSTEM AIR DISTRIBUTION FAN CABIN PRESSURE CONTROL SYSTEM CABIN PRESSURE CONTROLLER CABIN PRESSURE INDICATOR	2312 2320 2330 2340 2350 2360	VHF COMMUNICATION SYSTEM DATA TRANSMISSION AUTO CALL ENTERTAINMENT SYSTEM INTERPHONE & PA SYSTEM AUDIO INTEGRATING SYSTEM STATIC DISCHARGE SYSTEM	2510 2520 2530 2540 2550	FLIGHT COMPARTMENT EQUIPMENT PASSENGER COMPARTMENT EQUIPMENT BUFFET/GALLEYS LAVATORIES CARGO COMPARTMENTS		
2110 2120 2121 2130 2131 2132 2133	CABIN COMPRESSOR SYSTEM AIR DISTRIBUTION SYSTEM AIR DISTRIBUTION FAN CABIN PRESSURE CONTROL SYSTEM CABIN PRESSURE CONTROLLER CABIN PRESSURE INDICATOR PRESSURE REGUL/OUTFLOW VALVE	2312 2320 2330 2340 2350	VHF COMMUNICATION SYSTEM DATA TRANSMISSION AUTO CALL ENTERTAINMENT SYSTEM INTERPHONE & PA SYSTEM AUDIO INTEGRATING SYSTEM	2510 2520 2530 2540 2550 2551	FLIGHT COMPARTMENT EQUIPMENT PASSENGER COMPARTMENT EQUIPMENT BUFFET/GALLEYS LAVATORIES CARGO COMPARTMENTS AGRICULTURAL SPRAY SYSTEM		
2110 2120 2121 2130 2131 2132	CABIN COMPRESSOR SYSTEM AIR DISTRIBUTION SYSTEM AIR DISTRIBUTION FAN CABIN PRESSURE CONTROL SYSTEM CABIN PRESSURE CONTROLLER CABIN PRESSURE INDICATOR	2312 2320 2330 2340 2350 2360 2370	VHF COMMUNICATION SYSTEM DATA TRANSMISSION AUTO CALL ENTERTAINMENT SYSTEM INTERPHONE & PA SYSTEM AUDIO INTEGRATING SYSTEM STATIC DISCHARGE SYSTEM	2510 2520 2530 2540 2550 2551 2560	FLIGHT COMPARTMENT EQUIPMENT PASSENGER COMPARTMENT EQUIPMENT BUFFET/GALLEYS LAVATORIES CARGO COMPARTMENTS AGRICULTURAL SPRAY SYSTEM EMERGENCY EQUIPMENT		
2110 2120 2121 2130 2131 2132 2133	CABIN COMPRESSOR SYSTEM AIR DISTRIBUTION SYSTEM AIR DISTRIBUTION FAN CABIN PRESSURE CONTROL SYSTEM CABIN PRESSURE CONTROLLER CABIN PRESSURE INDICATOR PRESSURE REGUL/OUTFLOW VALVE	2312 2320 2330 2340 2350 2360 2370	VHF COMMUNICATION SYSTEM DATA TRANSMISSION AUTO CALL ENTERTAINMENT SYSTEM INTERPHONE & PA SYSTEM AUDIO INTEGRATING SYSTEM STATIC DISCHARGE SYSTEM AUDIO/VIDEO MONITORING ELECTRICAL POWER	2510 2520 2530 2540 2550 2551 2560 2561	FLIGHT COMPARTMENT EQUIPMENT PASSENGER COMPARTMENT EQUIPMENT BUFFET/GALLEYS LAVATORIES CARGO COMPARTMENTS AGRICULTURAL SPRAY SYSTEM EMERGENCY EQUIPMENT LIFE JACKET		
2110 2120 2121 2130 2131 2132 2133 2134 2140 2150	CABIN COMPRESSOR SYSTEM AIR DISTRIBUTION SYSTEM AIR DISTRIBUTION FAN CABIN PRESSURE CONTROL SYSTEM CABIN PRESSURE CONTROLLER CABIN PRESSURE INDICATOR PRESSURE REGUL/OUTFLOW VALVE CABIN PRESSURE SENSOR HEATING SYSTEM CABIN COOLING SYSTEM	2312 2320 2330 2340 2350 2360 2370 24 E	VHF COMMUNICATION SYSTEM DATA TRANSMISSION AUTO CALL ENTERTAINMENT SYSTEM INTERPHONE & PA SYSTEM AUDIO INTEGRATING SYSTEM STATIC DISCHARGE SYSTEM AUDIO/VIDEO MONITORING ELECTRICAL POWER ELECTRICAL POWER SYSTEM	2510 2520 2530 2540 2550 2551 2560 2561 2562	FLIGHT COMPARTMENT EQUIPMENT PASSENGER COMPARTMENT EQUIPMENT BUFFET/GALLEYS LAVATORIES CARGO COMPARTMENTS AGRICULTURAL SPRAY SYSTEM EMERGENCY EQUIPMENT LIFE JACKET EMERGENCY LOCATOR BEACON		
2110 2120 2121 2130 2131 2132 2133 2134 2140 2150 2160	CABIN COMPRESSOR SYSTEM AIR DISTRIBUTION SYSTEM AIR DISTRIBUTION FAN CABIN PRESSURE CONTROL SYSTEM CABIN PRESSURE CONTROLLER CABIN PRESSURE INDICATOR PRESSURE REGUL/OUTFLOW VALVE CABIN PRESSURE SENSOR HEATING SYSTEM CABIN COOLING SYSTEM CABIN TEMPERATURE CONTROL SYSTEM	2312 2320 2330 2340 2350 2360 2370 24 E 2400 2410	VHF COMMUNICATION SYSTEM DATA TRANSMISSION AUTO CALL ENTERTAINMENT SYSTEM INTERPHONE & PA SYSTEM AUDIO INTEGRATING SYSTEM STATIC DISCHARGE SYSTEM AUDIO/VIDEO MONITORING ELECTRICAL POWER ELECTRICAL POWER SYSTEM ALTERNATOR-GENERATOR DRIVE	2510 2520 2530 2540 2550 2551 2560 2561 2562 2563	FLIGHT COMPARTMENT EQUIPMENT PASSENGER COMPARTMENT EQUIPMENT BUFFET/GALLEYS LAVATORIES CARGO COMPARTMENTS AGRICULTURAL SPRAY SYSTEM EMERGENCY EQUIPMENT LIFE JACKET EMERGENCY LOCATOR BEACON PARACHUTE		
2110 2120 2121 2130 2131 2132 2133 2134 2140 2150 2160 2161	CABIN COMPRESSOR SYSTEM AIR DISTRIBUTION SYSTEM AIR DISTRIBUTION FAN CABIN PRESSURE CONTROL SYSTEM CABIN PRESSURE CONTROLLER CABIN PRESSURE INDICATOR PRESSURE REGUL/OUTFLOW VALVE CABIN PRESSURE SENSOR HEATING SYSTEM CABIN COOLING SYSTEM CABIN TEM PERATURE CONTROL SYSTEM CABIN TEM PERATURE CONTROLLER	2312 2320 2330 2340 2350 2360 2370 24 E 2400 2410 2420	VHF COMMUNICATION SYSTEM DATA TRANSMISSION AUTO CALL ENTERTAINMENT SYSTEM INTERPHONE & PA SYSTEM AUDIO INTEGRATING SYSTEM STATIC DISCHARGE SYSTEM AUDIO/VIDEO MONITORING ELECTRICAL POWER ELECTRICAL POWER SYSTEM ALTERNATOR-GENERATOR DRIVE AC GENERATION SYSTEM	2510 2520 2530 2540 2550 2551 2560 2561 2562 2563 2564	FLIGHT COMPARTMENT EQUIPMENT PASSENGER COMPARTMENT EQUIPMENT BUFFET/GALLEYS LAVATORIES CARGO COMPARTMENTS AGRICULTURAL SPRAY SYSTEM EMERGENCY EQUIPMENT LIFE JACKET EMERGENCY LOCATOR BEACON PARACHUTE LIFE RAFT		
2110 2120 2121 2130 2131 2132 2133 2134 2140 2150 2160 2161 2162	CABIN COMPRESSOR SYSTEM AIR DISTRIBUTION SYSTEM AIR DISTRIBUTION FAN CABIN PRESSURE CONTROL SYSTEM CABIN PRESSURE CONTROLLER CABIN PRESSURE INDICATOR PRESSURE REGUL/OUTFLOW VALVE CABIN PRESSURE SENSOR HEATING SYSTEM CABIN COOLING SYSTEM CABIN TEM PERATURE CONTROL SYSTEM CABIN TEM PERATURE CONTROLLER CABIN TEM PERATURE INDICATOR	2312 2320 2330 2340 2350 2360 2370 24 E 2400 2410 2420 2421	VHF COMMUNICATION SYSTEM DATA TRANSMISSION AUTO CALL ENTERTAINMENT SYSTEM INTERPHONE & PA SYSTEM AUDIO INTEGRATING SYSTEM STATIC DISCHARGE SYSTEM AUDIO/VIDEO MONITORING ELECTRICAL POWER ELECTRICAL POWER SYSTEM ALTERNATOR-GENERATOR DRIVE AC GENERATION SYSTEM AC GENERATOR-ALTERNATOR	2510 2520 2530 2540 2550 2551 2560 2561 2562 2563 2564 2565	FLIGHT COMPARTMENT EQUIPMENT PASSENGER COMPARTMENT EQUIPMENT BUFFET/GALLEYS LAVATORIES CARGO COMPARTMENTS AGRICULTURAL SPRAY SYSTEM EMERGENCY EQUIPMENT LIFE JACKET EMERGENCY LOCATOR BEACON PARACHUTE LIFE RAFT ESCAPE SLIDE		
2110 2120 2121 2130 2131 2132 2133 2134 2140 2150 2160 2161	CABIN COMPRESSOR SYSTEM AIR DISTRIBUTION SYSTEM AIR DISTRIBUTION FAN CABIN PRESSURE CONTROL SYSTEM CABIN PRESSURE CONTROLLER CABIN PRESSURE INDICATOR PRESSURE REGUL/OUTFLOW VALVE CABIN PRESSURE SENSOR HEATING SYSTEM CABIN COOLING SYSTEM CABIN TEM PERATURE CONTROL SYSTEM CABIN TEM PERATURE CONTROLLER	2312 2320 2330 2340 2350 2360 2370 24 E 2400 2410 2420	VHF COMMUNICATION SYSTEM DATA TRANSMISSION AUTO CALL ENTERTAINMENT SYSTEM INTERPHONE & PA SYSTEM AUDIO INTEGRATING SYSTEM STATIC DISCHARGE SYSTEM AUDIO/VIDEO MONITORING ELECTRICAL POWER ELECTRICAL POWER SYSTEM ALTERNATOR-GENERATOR DRIVE AC GENERATION SYSTEM	2510 2520 2530 2540 2550 2551 2560 2561 2562 2563 2564 2565 2570	FLIGHT COMPARTMENT EQUIPMENT PASSENGER COMPARTMENT EQUIPMENT BUFFET/GALLEYS LAVATORIES CARGO COMPARTMENTS AGRICULTURAL SPRAY SYSTEM EMERGENCY EQUIPMENT LIFE JACKET EMERGENCY LOCATOR BEACON PARACHUTE LIFE RAFT ESCAPE SLIDE ACCESSORY COMPARTMENT		

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2600	FIRE PROTECTION SYSTEM	2900	HYDRAULIC POWER SYSTEM	3200	LANDING GEAR SYSTEM
2610	DETECTION SYSTEM	2910	HYDRAULIC, MAIN SYSTEM	3201	LANDING GEAR/WHEEL FAIRING
2611	SMOKE DETECTION	2911	HYDRAULIC POWER-ACCUMULATOR-MAIN	3210	MAIN LANDING GEAR
2612	FIRE DETECTION	2912	HYDRAULIC FILTER-MAIN SYSTEM	3211	MAIN LANDING GEAR ATTACH SECTION
2613	OVERHEAT DETECTION	2913	HYDRAULIC PUMP. ELECT-ENGMAIN	3212	EMERGENCY FLOTATION SECTION
2620	EXTINGUISHING SYSTEM	2914	HYDRAULIC HANDPUMP-MAIN	3213	MAIN LANDING GEAR STRUT/AXLE/TRUCK
2621	FIRE BOTTLE, FIXED	2915	HYDRAULIC PRESSURE RELIEF VLV-MAIN	3220	NOSE/TAIL LANDING GEAR
2622	FIRE BOTTLE, PORTABLE	2916	HYDRAULIC RESERVOIR-MAIN	3221	NOSE/TAIL LANDING GEAR ATTACH SECTION
07 5	LIGHT CONTROL C	2917	HYDRAULIC PRESSURE REGULATOR-MAIN	3222	NOSE/TAIL LANDING GEAR STRUT/AXLE
<u> 27 F</u>	LIGHT CONTROLS	2920	HYDRAULIC, AUXILIARY SYSTEM	3230	LANDING GEAR RETRACT/EXT. SYSTEM
2700	FLIGHT CONTROL SYSTEM	2921	HYDRAULIC ACCUMULATOR-AUXILIARY	3231	LANDING GEAR DOOR RETRACT SECTION
2701	CONTROL COLUMN SECTION	2922	HYDRAULIC FILTER-AUXILIARY	3232	LANDING GEAR DOOR ACTUATOR
2710	AILERON CONTROL SYSTEM	2923	HYDRAULIC PUMP-AUXILIARY	3233	LANDING GEAR ACTUATOR
2711	AILERON TAB CONTROL SYSTEM	2925	HYDRAULIC PRESSURE RELIEF-AUXILIARY	3234	LANDING GEAR SELECTOR
2720	RUDDER CONTROL SYSTEM	2926	HYDRAULIC RESERVOIR-AUXILIARY	3240	LANDING GEAR BRAKE SYSTEM
2721	RUDDER TAB CONTROL SYSTEM	2927	HYDRAULIC PRESSURE REGULATOR-AUX.	3241	BRAKE ANTI-SKID SECTION
2722	RUDDER ACTUATOR	2930	HYDRAULIC SYSTEM INDICATING	3242	BRAKE
2730	ELEVATOR CONTROL SYSTEM	2931	HYDRAULIC PRESSURE INDICATOR	3243	MASTER CYL/BRAKE VALVE
2731	ELEVATOR TAB CONTROL SYSTEM	2932	HYDRAULIC PRESSURE SENSOR	3244	TIRE
2740	STABILIZER CONTROL SYSTEM	2933	HYDRAULIC QUANTITY INDICATOR	3245	TIRE TUBE
2741	STABILIZER POSITION INDICATING	2934	HYDRAULIC QUANTITY SENSOR	3246	WHEEL/SKI/FLOAT
2742	STABILIZER ACTUATOR	30 10	CE AND RAIN PROTECTION	3250	LANDING GEAR STEERING SYSTEM
2750	TE FLAP CONTROL SYSTEM			3251	STEERING UNIT
2751	TE FLAP POSITION IND. SYSTEM	3000	ICE/RAIN PROTECTION SYSTEM	3252	SHIMMY DAMPER
2752	TE FLAP ACTUATOR	3010	AIRFOIL ANTI/DE-ICE SYSTEM	3260	LANDING GEAR POSITION & WARNING
2760	DRAG CONTROL SYSTEM	3020	AIR INTAKE ANTI/DE-ICE SYSTEM	3270	AUXILIARY GEAR (TAIL SKID)
2761	DRAG CONTROL ACTUATOR	3030	PITOT/STATIC ANTI-ICE SYSTEM	22 I	<u>IGHTS</u>
2770	GUST LOCK/DAMPER SYSTEM	3040	WINDSHIELD/DOOR RAIN/ICE REMOVAL	<u>33 L</u>	<u> </u>
2780	LE FLAP CONTROL SYSTEM	3050	ANTENNA/RADOME ANTI-ICE/DE-ICE SYSTEM	3300	LIGHTING SYSTEM
2781	LE FLAP POSITION IND. SYSTEM	3060	PROP/ROTOR ANTI-ICE/DE-ICE SYSTEM	3310	FLIGHT COMPARTMENT LIGHTING
2782	LE FLAP ACTUATOR	3070	WATER LINE ANTI-ICE SYSTEM	3320	PASSENGER COMPARTMENT LIGHTING
28 F	IIFI	3080	ICE DETECTION	3330	CARGO COMPARTMENT LIGHTING
		31 II	NSTRUMENTS	3340	EXTERIOR LIGHTING
2800	AIRCRAFT FUEL SYSTEM		INDICATING/RECORDING SYSTEM	3350	EMERGENCY LIGHTING
2810	FUEL STORAGE	3100		34 N	AVIGATION
2820	ACFT FUEL DISTRIB. SYSTEM	3110	INSTRUMENT PANEL		
2821	ACFT FUEL FILTER/STRAINER	3120	INDEPENDENT INSTRUMENTS (CLOCK, ETC.)	3400	NAVIGATION SYSTEM
2822	FUEL BOOST PUMP	3130	DATA RECORDERS (FLT/MAINT)	3410	FLIGHT ENVIRONMENT DATA
2823	FUEL SELECTOR/SHUTOFF VALVE	3140	CENTRAL MARNING	3411	PITOT/STATIC SYSTEM
2824	FUEL TRANSFER VALVE	3150	CENTRAL BIGBLAY	3412	OUTSIDE AIR TEMP. IND./SENSOR
2830	FUEL DUMP SYSTEM	3160	CENTRAL DISPLAY	3413	RATE OF CLIMB INDICATION
2840	ACFT FUEL INDICATING	3170	AUTOMATIC DATA	3414	AIRSPEED/MACH INDICATING
2841	FUEL QUANTITY INDICATOR			3415	HIGH SPEED WARNING
2842	FUEL QUANTITY SENSOR			3416	ALTIMETER, BAROMETRIC/ENCODER
2843	FUEL TEMPERATURE INDICATING				

32 LANDING GEAR

29 HYDRAULIC POWER

26 FIRE PROTECTION

2844 FUEL PRESSURE INDICATOR

34 NA	VIGATION CONT'D	<u>37 V</u>	<u>ACUUM</u>	5247	APU DOORS
3417	AIR DATA COMPUTER	3700	VACUUM SYSTEM	5248	TAIL CONE DOORS
	STALL WARNING SYSTEM	3710	VACUUM DISTRIBUTION SYSTEM	5250	FIXED INNER DOORS
	ATTITUDE AND DIRECTION DATA SYSTEM	3720	VACUUM INDICATING SYSTEM	5260	ENTRANCE STAIRS
	ATTITUDE GYRO & IND. SYSTEM			5270	DOOR WARNING SYSTEM
	DIRECTIONAL GYRO & IND. SYSTEM	<u>38 W</u>	/ATER/WASTE	5280	LANDING GEAR DOORS
	MAGNETIC COMPASS	3800	WATER & WASTE SYSTEM	<u>53 F</u>	<u>USELAGE</u>
3424	TURN & BANK/RATE OF TURN INDICATOR	3810	POTABLE WATER SYSTEM	5300	FUSELAGE STRUCTURE (GENERAL)
3425	INTEGRATED FLT. DIRECTOR SYSTEM	3820	WASH WATER SYSTEM	5301	A ERIAL TOW EQUIPMENT
3430	LANDING & TAXI AIDS	3830	WASTE DISPOSAL SYSTEM	5302	ROTORCRAFT TAIL BOOM
3431	LOCALIZER/VOR SYSTEM	3840	AIR SUPPLY (WATER PRESS. SYSTEM)	5310	FUSELAGE MAIN STRUCTURE
	GLIDE SLOPE SYSTEM	45 C	ENTRAL MAINT. SYSTEM	5311	FUSELAGE MAIN FRAME
	MICROWAVE LANDING SYSTEM			5312	FUSELAGE MAIN BULKHEAD
	MARKER BEACON SYSTEM	4500	CENTRAL MAINT. COMPUTER	5313	FUSELAGE MAIN LONGERON/STRINGER
	HEADS UP DISPLAY SYSTEM	40 4	IDDODNE ALIVILIADY DOWED	5314	FUSELAGE MAIN KEEL
	WIND SHEAR DETECTION SYSTEM	49 A	IRBORNE AUXILIARY POWER	5315	FUSELAGE MAIN FLOOR BEAM
	INDEPENDENT POS. DETERMINING SYSTEM	4900	AIRBORNE APU SYSTEM	5320	FUSELAGE MISCELLANEOUS STRUCTURE
	INERTIAL GUIDANCE SYSTEM	4910	APU COWLING/CONTAINMENT	5321	FUSELAGE FLOOR PANEL
	WEATHER RADAR SYSTEM	4920	A PU CORE ENGINE	5322	FUSELAGE INTERNAL MOUNT STRUCTURE
	DOPPLER SYSTEM	4930	APU ENGINE FUEL & CONTROL	5323	FUSELAGE INTERNAL STAIRS
	GROUND PROXIMITY SYSTEM	4940	APU START/IGNITION SYSTEM	5324	FUSELAGE FIXED PARTITIONS
	AIR COLLISION AVOIDANCE SYSTEM (TCAS)	4950	APU BLEED AIR SYSTEM	5330	FUSELAGE MAIN PLATE/SKIN
	NON RADAR WEATHER SYSTEM	4960	APU CONTROLS	5340	FUSELAGE MAIN ATTACH FITTINGS
	DEPENDENT POSITION DETERMINING SYSTEM	4970	APU INDICATING SYSTEM	5341	WING ATTACH FITTINGS (ON FUSELAGE)
	DME/TACAN SYSTEM	4980	APU EXHAUST SYSTEM	5342	STABILIZER ATTACH FITTINGS
	ATC TRANSPONDER SYSTEM	4990	APU OIL SYSTEM	5343	LANDING GEAR ATTACH FITTINGS
	LORAN SYSTEM			5344	FUSELAGE DOOR HINGES
3454	VOR SYSTEM	<u>51 S</u>	TANDARD PRACTICES/STRUCTURES	5345	FUSELAGE EQUIPMENT ATTACH FITTINGS
	ADF SYSTEM	5100	STANDARD PRACTICES/STRUCTURES	5346	POWERPLANT ATTACH FITTINGS
	OMEGA NAVIGATION SYSTEM	5101	AIRCRAFT STRUCTURES	5347	SEAT/CARGO ATTACH FITTINGS
	GLOBAL POSITIONING SYSTEM	5102	BALLOON REPORTS	5350	FUSELAGE AERODYNAMIC FAIRINGS
3460	FLIGHT MANAGE. COMPUTING SYSTEM	3102	BALLOON KET OKTO	<u>54 N</u>	ACELLES/PYLONS
<u>35 OX</u>	<u>(YGEN</u>	<u>52 D</u>	<u>oors</u>	5400	NACELLE/PYLON STRUCTURE
3500	OXYGEN SYSTEM			5410	MAIN FRAME (ON NACELLE/PYLON)
	CREW OXYGEN SYSTEM	5200	DOORS	5411	FRAME/SPAR/RIB(NACELLE/PYLON)
	PASSENGER OXYGEN SYSTEM	5210	PASSENGER/CREW DOORS	5412	BULKHEAD/FIREWALL (NAC/PYLON)
	PORTABLE OXYGEN SYSTEM	5220	EM ERGENCY EXIT	5413	LONGERON/STRINGER (NAC/PYLON)
		5230	CARGO/BAGGAGE DOORS	5414	PLATE SKIN (NAC/PYLONS)
<u>36 PN</u>	<u>EUMATIC</u>	5240	SERVICE DOORS	5415	ATTACH FITTINGS (NAC/PYLON)
3600	PNEUMATIC SYSTEM	5241	GALLEY DOORS	55 S	TABILIZERS
	PNEUMATIC DISTRIBUTION SYSTEM	5242	E/E COMPARTMENT DOORS		
	PNEUMATIC INDICATING SYSTEM	5243	HYDRAULIC COMPARTMENT DOORS	5500	EM PENNAGE STRUCTURE
		5244	ACCESSORY COMPARTMENT DOORS	5510	HORIZONTAL STABILIZER STRUCTURE
		5245	AIR CONDITIONING COMPART. DOORS	5511	HORIZONTAL STABILIZER SPAR/RIB
		5246	FLUID SERVICE DOORS	5512	HORIZONTAL STABILIZER PLATE/SKIN
				5513	HORIZONTAL STABILIZER TAB STRUCTURE
				5520	ELEVATOR STRUCTURE

5521 ELEVATOR SPAR/RIB STRUCTURE 6100 PROPELLER SYSTEM 6700 ROTORCRAFT FLIGHT CONTROL 5522 ELEVATOR PLATES/SKIN STRUCTURE 6110 PROPELLER ASSEMBLY 6710 MAIN ROTOR CONTROL 5523 ELEVATOR TAB STRUCTURE 6111 PROPELLER BLADE SECTION 6711 TILT ROTOR FLIGHT CONTROL	
5522 ELEVATOR PLATES/SKIN STRUCTURE 6110 PROPELLER ASSEMBLY 6710 MAIN ROTOR CONTROL	
5530 VERTICAL STABILIZER STRUCTURE 6112 PROPELLER DE-ICE BOOT SECTION 6720 TAIL ROTOR CONTROL SYSTEM	
5531 VERTICAL STABILIZER SPAR/RIB STRUCTURE 6113 PROPELLER SPINNER SECTION 6730 ROTORCRAFT SERVO SYSTEM	
5532 VERTICAL STABILIZER PLATES/SKIN 6114 PROPELLER HUB SECTION	
5533 VENTRAL STRUCTURE (ON VERT. STAB) 6120 PROPELLER CONTROL SYSTEM 71 POWERPLANT	
5540 RUDDER STRUCTURE 6121 PROPELLER SYNCHRONIZER SECTION 7100 POWERPLANT SYSTEM	
5541 RUDDER SPAR/RIB STRUCTURE 6122 PROPELLER GOVERNOR 7110 ENGINE COWLING SYSTEM	
5542 RUDDER PLATE/SKIN STRUCTURE 6123 PROPELLER FEATHERING/REVERSING 7111 COWL FLAP SYSTEM	
5543 RUDDER TAB STRUCTURE 6130 PROPELLER BRAKING 7112 ENGINE AIR BAFFLE SECTION	
5550 EMPENNAGE FLT. CONT. ATTACH FITTING 6140 PROPELLER INDICATING SYSTEM 7120 ENGINE MOUNT SECTION	
5551 HORIZONTAL STABILIZER ATTACH FITTING	
5552 ELEVATOR/TAB ATTACH FITTINGS 62 MAIN ROTOR 7160 ENGINE AIR INTAKE SYSTEM	
5553 VERT. STAB. ATTACH FITTINGS 6200 MAIN ROTOR SYSTEM 7170 ENGINE DRAINS	
5554 RUDDER/TAB ATTACH FITTINGS 6210 MAIN ROTOR BLADES	
6220 MAIN ROTOR HEAD <u>72 TURBINE/TURBOPROP ENGINE</u>	
56 WINDOWS 6230 MAIN ROTOR MAST/SWASHPLATE 7200 ENGINE (TURBINE/TURBOPROP)	
5600 WINDOW/WINDSHIELD SYSTEM 6240 MAIN ROTOR INDICATING SYSTEM 7210 TURBINE ENGINE REDUCTION GEAL	R
5040 FLICHT COMPARTMENT WINDOWS 7220 TURRINE ENGINE AIR INLET SECTION	
5620 PASSENGER COMPARTMENT WINDOWS 63 MAIN ROTOR DRIVE 7220 TORBINE ENGINE ANT INCELL SECTION 7230 TURBINE ENGINE COMPRESSOR SE	
5630 DOOR WINDOWS 6300 MAIN ROTOR DRIVE SYSTEM 7240 TURBINE ENGINE COMBUSTION SE	
5640 INSPECTION WINDOWS 6310 ENGINE/TRANSMISSION COUPLING 7250 TURBINE SECTION	.011011
6320 MAIN ROTOR GEARBOX 7260 TURBINE ENGINE ACCESSORY DRIV	\/F
57 WINGS 6321 MAIN ROTOR BRAKE 7261 TURBINE ENGINE OIL SYSTEM	v L
POTOPORAL COOLING FAN SYSTEM	d
WING STRUCTURE	•
5710 WING WAIN FRAME STRUCTURE	
Wing Spar Structure	
64 IAIL ROTOR	
5713 WING LONGERON/STRINGER 7310 ENGINE FUEL DISTRIBUTION 5714 WING CENTER BOX 6400 TAIL ROTOR SYSTEM 7311 ENGINE FUEL-OIL COOLER	
With Middle Midd	
5730 WING PLATES/SKINS 6420 TAIL ROTOR HEAD 7313 FUEL INJECTOR NOZZLE	
5740 WING ATTACH FITTINGS 6440 TAIL ROTOR INDICATING SYSTEM 7314 ENGINE FUEL PUMP	
5741 WING, FUSELAGE ATTACH FITTINGS 65 TAIL ROTOR DRIVE 7320 FUEL CONTROLLING SYSTEM	
Wind, NAC/FILON ATTACH FITTINGS ————————————————————————————————————	
5743 WING, LANDING GEAR ATTACH FITTINGS 6500 TAIL ROTOR DRIVE SYSTEM 7322 FUEL CONTROL/CARBURETOR	
5744 CONTROL SURFACE ATTACH FITTINGS 6510 TAIL ROTOR DRIVE SHAFT 7323 TURBINE GOVERNOR	
5750 WING CONTROL SURFACE STRUCTURE 6520 TAIL ROTOR GEARBOX 7324 FUEL DIVIDER	
5751 AILERON STRUCTURE 6540 TAIL ROTOR DRIVE INDICATING SYSTEM 7330 ENGINE FUEL INDICATING SYSTEM	
5752 AILERON TAB STRUCTURE 7331 FUEL FLOW INDICATING	
5753 TE FLAP STRUCTURE 7332 FUEL PRESSURE INDICATING	
5754 LEADING EDGE DEVICE STRUCTURE 7333 FUEL FLOW SENSOR 5755 SPOILER STRUCTURE 7334 FUEL PRESSURE SENSOR	

<u>74</u>	<u>IGNITION</u>	<u>78 E</u>	ENGINE EXHAUST	853
7400	IGNITION SYSTEM	7800	ENGINE EXHAUST SYSTEM	854 855
7410	IGNITION POWER SUPPLY	7810	ENGINE COLLECTOR/TAILPIPE/NOZZLE	833
7411	LOW TENSION COIL	7820	ENGINE NOISE SUPPRESSOR	
7412	EXCITER	7830	THRUST REVERSER	
7413	INDUCTION VIBRATOR			
7414	MAGNETO/DISTRIBUTOR	79 I	ENGINE OIL	
7420	IGNITION HARNESS (DISTRIBUTION)	<u> </u>		
7421	SPARK PLUG/IGNITER	7900	ENGINE OIL SYSTEM (AIRFRAME)	
7430	IGNITION SWITCHING	7910	ENGINE OIL STORAGE (AIRFRAME)	
		7920	ENGINE OIL DISTRIBUTION (AIRFRAME)	
<u>75</u>	<u>AIR</u>	7921	ENGINE OIL COOLER	
7500	ENGINE BLEED AIR SYSTEM	7922	ENGINE OIL TEMP. REGULATOR	
7510		7923	OIL SHUTOFF VALVE	
7520		7930	ENGINE OIL INDICATING SYSTEM	
7530		7931	ENGINE OIL PRESSURE	
7531		7932	ENGINE OIL QUANTITY	
		7933	ENGINE OIL TEMPERATURE	
7532 7540				
7540	BLEED AIR INDICATING SYSTEM	80 9	STARTING .	
<u>76</u>	ENGINE CONTROLS	8000	ENGINE STARTING SYSTEM	
7600	ENGINE CONTROLS	8010	ENGINE CRANKING	
7601		8011	ENGINE STARTER	
7602		8012	ENGINE START VALVES/CONTROLS	
7603				
7620		<u>81 </u>	TURBOCHARGING	
77	ENGINE INDICATING	8100	EXHAUST TURBINE SYSTEM (RECIP)	
<u>77</u>	ENGINE INDICATING	8110	POWER RECOVERY TURBINE (RECIP)	
7700	ENGINE INDICATING SYSTEM	8120	EXHAUST TURBOCHARGER	
7710	POWER INDICATING SYSTEM			
7711	ENGINE PRESSURE RATIO (EPR)	82	WATER INJECTION	
7712		8200	WATER INJECTION SYSTEM	
7713	MANIFOLD PRESSURE (MP) INDICATING	0200	With Elit Intelection of orein	
7714	ENGINE RPM INDICATING SYSTEM	83	ACCESSORY GEARBOXES	
7720	ENGINE TEMP. INDICATING SYSTEM			
7721	CYLINDER HEAD TEMP (CHT) INDICATING	8300	ACCESSORY GEARBOXES	
7722	ENG. EGT/TIT INDICATING SYSTEM	85	DECIDENCATING ENGINE	
7730	ENGINE IGNITION ANALYZER SYSTEM	0.0	RECIPROCATING ENGINE	
7731	ENGINE IGNITION ANALYZER	8500	ENGINE (RECIPROCATING)	
7732	ENGINE VIBRATION ANALYZER	8510	RECIPROCATING ENGINE FRONT SECTION	N
7740	ENGINE INTEGRATED INSTRUMENT SYSTEM	8520	RECIPROCATING ENGINE POWER SECTION	NC

RECIPROCATING ENGINE CYLINDER SECTION RECIPROCATING ENGINE REAR SECTION RECIPROCATING ENGINE OIL SYSTEM

MECHANICS CREED

UPON MY HONOR I swear that I shall hold in sacred trust the rights and privileges conferred upon me as a certified mechanic. Knowing full well that the safety and lives of others are dependent upon my skill and judgment, I shall never knowingly subject others to risks which I would not be willing to assume for myself, or for those dear to me.

IN DISCHARGING this trust, I pledge myself never to undertake work or approve work which I feel to be beyond the limits of my knowledge; nor shall I allow any non-certificated superior to persuade me to approve aircraft or equipment as airworthy against my better judgment; nor shall I permit my judgment to be influenced by money or other personal gain; nor shall I pass as airworthy aircraft or equipment about which I am in doubt, either as a result of direct inspection or uncertainty regarding the ability of others who have worked on it to accomplish their work satisfactorily.

I REALIZE the grave responsibility which is mine as a certified airman, to exercise my judgment on the airworthiness of aircraft and equipment. I, therefore, pledge unyielding adherence to these precepts for the advancement of aviation and for the dignity of my vocation.